

Rule 52. Particulate Matter - Concentration (Grain Loading) (Adopted 7/2/68, Revised and Renumbered 10/22/68, Revised 5/23/72, 4/13/04)

A. Requirements

A person shall not discharge into the atmosphere from any source particulate matter in excess of the concentration shown in the following table (see Rule 52 Table).

Where the volume discharged falls between figures listed in the Table, the exact concentration permitted to be discharged shall be determined by linear interpolation.

CONCENTRATION
(Grain Loading)

TABLE FOR RULE 52

VOLUME DISCHARGED - Cubic Feet of Dry Gas Per Minute Calculated at Standard Conditions <u>DCFM</u>	MAXIMUM CONCENTRATION OF PARTICULATE MATTER ALLOWED IN DISCHARGED GAS - Grains Per Cubic Foot of Dry Gas at Standard Conditions <u>GR/DCF</u>	VOLUME DISCHARGED - Cubic Feet of Dry Gas Per Minute Calculated at Standard Conditions <u>DCFM</u>	MAXIMUM CONCENTRATION OF PARTICULATE MATTER ALLOWED IN DISCHARGED GAS - Grains Per Cubic Foot of Dry Gas at Standard Conditions <u>GR/DCF</u>
1000 or less	0.200	20000	0.0635
1200	.187	30000	.0544
1400	.176	40000	.0487
1600	.167	50000	.0447
1800	.160	60000	.0417
2000	.153	70000	.0393
2500	.141	80000	.0374
3000	.131	100000	.0343
3500	.124	200000	.0263
4000	.118	400000	.0202
5000	.108	600000	.0173
6000	.101	800000	.0155
7000	.0949	1000000	.0142
8000	.0902	1500000	.0122
10000	.0828	2000000	.0109
15000	.0709	2500000 or more	.0100

B. Exemptions

1. This Rule shall not apply to the following equipment provided it combusts only liquid fuels, gaseous fuels, or waste gases, and emits only combustion products:

- a. Boilers
- b. Steam generators

- c. Water heaters
- d. Process heaters
- e. Space heaters
- f. Gas turbines
- g. Internal combustion engines
- h. Flares

- 2. This Rule shall not apply to abrasive blasting operations meeting the requirements of Rule 74.1.
- 3. This Rule shall not apply to fires set in accordance with the requirements of Rule 56.

C. Test Methods

Compliance shall be determined using CARB Method 5. The total particulate catch shall include the filter catch, probe catch, impinger catch, and the solvent extract, as specified in CARB Method 5. Any other appropriate test method may be used with prior written approval by the District, the California Air Resources Board, and the U.S. Environmental Protection Agency.

D. Definitions

- 1. "Abrasive blasting": The operation of cleaning or preparing a surface by forcibly propelling a stream of abrasive material against that surface.
- 2. "Particulate Matter": Any material, except uncombined water, that exists in a finely divided form as a liquid or solid at standard conditions.
- 3. "Standard Conditions": A gas temperature of 68 degrees Fahrenheit (20 degrees Celsius) and a gas pressure of 14.7 pounds per square inch (760 mm. Hg) absolute.